

JosÃ© Alberto HernÃ¡ndez

List of Publications by Year in descending order

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93
papers

1,289
citations

516710

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96
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96
times ranked

1196
citing authors

#	ARTICLE	IF	CITATIONS
1	All-optical aggregation and distribution of traffic in large metropolitan area networks using multi-Tb/s S-BVTs. Journal of Optical Communications and Networking, 2022, 14, 316.	4.8	4
2	Applications of Machine Learning Techniques for What-if Analysis and Network Overload Detection. , 2022, , .		2
3	Is your FPGA bitstream Hardware Trojan-free? Machine learning can provide an answer. Journal of Systems Architecture, 2022, 128, 102543.	4.3	7
4	Voting Margin: A Scheme for Error-Tolerant k -Nearest Neighbors Classifiers for Machine Learning. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 2089-2098.	4.6	7
5	On the cloudification of Metropolitan Area Networks: impact on cost and energy consumption. , 2021, , .		2
6	Dimensioning Flex Ethernet Groups for the transport of 5G NR fronthaul traffic in C-RAN scenarios. , 2021, , .		1
7	A Techno-Economic Study of Optical Network Disaggregation Employing Open Source Software Business Models for Metropolitan Area Networks. IEEE Communications Magazine, 2020, 58, 40-46.	6.1	11
8	Decentralized Coordination of Converged Tactile Internet and MEC Services in H-CRAN Fiber Wireless Networks. Journal of Lightwave Technology, 2020, 38, 4935-4947.	4.6	19
9	SDN-Enabled S-BVT for Disaggregated Networks: Design, Implementation and Cost Analysis. Journal of Lightwave Technology, 2020, 38, 3037-3043.	4.6	16
10	Learning from data: Applications of Machine Learning in optical network design and modeling. , 2020, , .		2
11	Comprehensive model for technoeconomic studies of next-generation central offices for metro networks. Journal of Optical Communications and Networking, 2020, 12, 414.	4.8	25
12	5G New Radio Fronthaul Network Design for eCPRI-IEEE 802.1CM and Extreme Latency Percentiles. IEEE Access, 2019, 7, 82218-82230.	4.2	37
13	Analysis of a hybrid Fixed-Elastic DBA with guaranteed fronthaul delay in XG(s)-PONs. Computer Networks, 2019, 164, 106907.	5.1	6
14	Netgen: A Fast and Scalable Tool for the Generation and Labeling of Networking Datasets. , 2019, , .		2
15	Machine Learning-Based Routing and Wavelength Assignment in Software-Defined Optical Networks. IEEE Transactions on Network and Service Management, 2019, 16, 871-883.	4.9	49
16	Meeting the Traffic Requirements of Residential Users in the Next Decade with Current FTTH Standards: How Much? How Long?. IEEE Communications Magazine, 2019, 57, 120-125.	6.1	28
17	Machine-Learning based analysis and classification of Android malware signatures. Future Generation Computer Systems, 2019, 97, 295-305.	7.5	23
18	CloneSpot: Fast detection of Android repackages. Future Generation Computer Systems, 2019, 94, 740-748.	7.5	6

#	ARTICLE	IF	CITATIONS
19	Low-Latency Transmission of Fronthaul Traffic over XG(S)-PON with Fixed-Elastic Bandwidth Reservations. , 2019, , .		2
20	Analysis and Evaluation of Antivirus Engines in Detecting Android Malware: A Data Analytics Approach. , 2018, , .		2
21	Machine-Learning-Assisted Routing in SDN-Based Optical Networks. , 2018, , .		20
22	Fronthaul Network Modeling and Dimensioning Meeting Ultra-Low Latency Requirements for 5G. Journal of Optical Communications and Networking, 2018, 10, 573.	4.8	72
23	Android Malware Characterization Using Metadata and Machine Learning Techniques. Security and Communication Networks, 2018, 2018, 1-11.	1.5	19
24	Design and Analysis of 5G Scenarios with simmer: An R Package for Fast DES Prototyping. IEEE Communications Magazine, 2018, 56, 145-151.	6.1	13
25	SignatureMiner: A Fast Anti-Virus Signature Intelligence Tool. , 2018, , .		0
26	Salary Prediction in the IT Job Market with Few High-Dimensional Samples: A Spanish Case Study. International Journal of Computational Intelligence Systems, 2018, 11, 1192.	2.7	10
27	Delay analysis of mixed fronthaul and backhaul traffic under strict priority queueing discipline in a 5G packet transport network. Transactions on Emerging Telecommunications Technologies, 2017, 28, e3168.	3.9	8
28	Towards a unified fronthaul-backhaul data plane for 5G The 5G-Crosshaul project approach. Computer Standards and Interfaces, 2017, 51, 56-62.	5.4	11
29	Delay analysis of fronthaul traffic in 5G transport networks. , 2017, , .		12
30	Network Planning for Dual Residential-Business Exploitation of Next-Generation Passive Optical Networks to Provide Symmetrical 1â€‰Gb/s Services. Journal of Optical Communications and Networking, 2016, 8, 249.	4.8	2
31	Oversubscription Dimensioning of Next-Generation PONs with Different Service Levels. IEEE Communications Letters, 2016, , 1-1.	4.1	4
32	An overview of the CPRI specification and its application to C-RAN-based LTE scenarios. , 2016, 54, 152-159.		152
33	Provisioning 1 Gb/s symmetrical services with next-generation passive optical network technologies. IEEE Communications Magazine, 2016, 54, 72-77.	6.1	15
34	Cycle configuration possibilities over DRDA networks. Transactions on Emerging Telecommunications Technologies, 2015, 26, 1086-1095.	3.9	0
35	Android malware detection from Google Play meta-data: Selection of important features. , 2015, , .		12
36	Packet Coalescing Strategies for Energy Efficient High-Speed Communications Over Plastic Optical Fibers. Journal of Optical Communications and Networking, 2015, 7, 253.	4.8	2

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37	Troubleshooting PON networks effectively with carrier-grade ethernet and WDM-PON. , 2014, 52, S7-S7.		7
38	Heuristics for PON-based 5G backhaul design. , 2014, , .		2
39	Dissecting the protocol and network traffic of the OnLive cloud gaming platform. Multimedia Systems, 2014, 20, 451-470.	4.7	78
40	On the effect of sudden data bursts in the upstream channel of Ethernet PONs employing IPACT under the gated-service discipline. Optical Switching and Networking, 2014, 13, 94-102.	2.0	5
41	On the tweet arrival process at Twitter: analysis and applications. Transactions on Emerging Telecommunications Technologies, 2014, 25, 273-282.	3.9	4
42	A Bloom Filter-Based Monitoring Station for a Lawful Interception Platform. Communications in Computer and Information Science, 2014, , 214-228.	0.5	0
43	Buffer Design Under Bursty Traffic with Applications in FCoE Storage Area Networks. IEEE Communications Letters, 2013, 17, 413-416.	4.1	3
44	Performance analysis of Energy Efficient Ethernet on video streaming servers. Computer Networks, 2013, 57, 599-608.	5.1	6
45	On providing mobility management in WOBANs: integration with PMIPv6 and MIH. , 2013, 51, 172-181.		11
46	Multicast service for ultraflow access networks. , 2013, , .		1
47	Using transparent WDM metro rings to provide an out-of-band control network for OpenFlow in MAN. , 2013, , .		2
48	Study of the potential energy savings in Ethernet by combining Energy Efficient Ethernet and Adaptive Link Rate. European Transactions on Telecommunications, 2012, 23, 227-233.	1.2	10
49	An empirical study of Cloud Gaming. , 2012, , .		35
50	Managing delay in the access. , 2012, , .		5
51	A note on the potential energy savings by extending the average cycle times in Passive Optical Networks. , 2012, , .		2
52	Failure propagation in GMPLS optical rings: CTMC model and performance analysis. Optical Switching and Networking, 2012, 9, 39-51.	2.0	5
53	Analysis and simulation of a delay-based service differentiation algorithm for IPACT-based PONs. Photonic Network Communications, 2012, 24, 228-236.	2.7	9
54	New insights from the analysis of free flow vehicular traffic in highways. , 2011, , .		25

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55	Study of a hybrid OCDMA-WDM segmented ring for metropolitan area networks. , 2011, , .		2
56	On providing metro ethernet services over transparent WDM optical rings. IEEE Network, 2011, 25, 14-19.	6.9	2
57	Improving Energy Efficiency in IEEE 802.3ba High-Rate Ethernet Optical Links. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 419-427.	2.9	10
58	Analysis of delay mean and variance of collision-free WDM rings with segment recirculation of blocked traffic. Photonic Network Communications, 2011, 21, 278-287.	2.7	0
59	Characterization of the busy-hour traffic of IP networks based on their intrinsic features. Computer Networks, 2011, 55, 2111-2125.	5.1	19
60	Towards an energy efficient 10 Gb/s optical ethernet: Performance analysis and viability. Optical Switching and Networking, 2011, 8, 131-138.	2.0	23
61	A Middleware Architecture for Designing TV-Based Adapted Applications for the Elderly. Lecture Notes in Computer Science, 2011, , 443-449.	1.3	5
62	A reliability analysis of Double-Ring topologies with Dual Attachment using p-cycles for optical metro networks. Computer Networks, 2010, 54, 1328-1341.	5.1	12
63	Multilayer Traffic Engineering for IP Over WDM Networks Based on Bayesian Decision Theory. Journal of Optical Communications and Networking, 2010, 2, 515.	4.8	4
64	Burst Transmission in Energy Efficient Ethernet. IEEE Internet Computing, 2010, , .	3.3	51
65	On Local CAC Schemes for Scalability of High-speed Networks. Journal of Networks, 2010, 5, .	0.4	1
66	Performance analysis of asynchronous best-effort traffic coexisting with TDM reservations in polymorphous OBS networks. Photonic Network Communications, 2009, 17, 93-103.	2.7	3
67	Assembly admission control based on random packet selection at border nodes in Optical Burst-Switched networks. Photonic Network Communications, 2009, 18, 39-48.	2.7	3
68	On the blocking time distribution of core OBS switches. Photonic Network Communications, 2009, 18, 314-322.	2.7	3
69	Is multilayer networking feasible?. Optical Switching and Networking, 2009, 6, 129-140.	2.0	25
70	Performance Evaluation and Design of Polymorphous OBS Networks With Guaranteed TDM Services. Journal of Lightwave Technology, 2009, 27, 2495-2505.	4.6	6
71	Performance evaluation of an optical transparent access tier based on PON and spectral codes. IEEE Journal on Selected Areas in Communications, 2009, 27, 143-155.	14.0	2
72	Admission control policies in flow-aware networks. , 2009, , .		9

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73	A multi-layer recovery strategy in FAN over WDM architectures. , 2009, , .		7
74	Performance evaluation of energy efficient ethernet. IEEE Communications Letters, 2009, 13, 697-699.	4.1	112
75	Optical Burst Switching. Computer Communications and Networks, 2009, , 87-130.	0.8	0
76	A Bayesian decision theory approach for the techno-economic analysis of an all-optical router (extended version). Computer Networks, 2008, 52, 1916-1926.	5.1	2
77	Analysis of Blocking Probability of Data Bursts With Continuous-Time Variable Offsets in Single-Wavelength OBS Switches. Journal of Lightwave Technology, 2008, 26, 1559-1568.	4.6	11
78	On the duration and spatial characteristics of internet traffic measurement experiments. IEEE Communications Magazine, 2008, 46, 148-155.	6.1	53
79	Analysis of the processing and sojourn times of Burst Control Packets in Optical Burst Switches. , 2008, , .		3
80	On local CAC schemes for scalability of high-speed networks. , 2008, , .		2
81	A queueing equivalent thresholding method for thinning traffic captures. , 2008, , .		4
82	Extension of the Flow-Aware Networking (FAN) architecture to the IP over WDM environment. , 2008, , .		14
83	On the Early Release of Burst-Control Packets in Optical Burst-Switched Networks. Lecture Notes in Computer Science, 2008, , 31-40.	1.3	3
84	Performance comparison of scheduling algorithms for IPTV traffic over polymorphous OBS routers. , 2007, , .		3
85	Discrete-time heavy-tailed chains, and their properties in modeling network traffic. ACM Transactions on Modeling and Computer Simulation, 2007, 17, 17.	0.8	4
86	An information model for the management of Optical Burst Switched networks. , 2007, , .		0
87	On the analysis of burst-assembly delay in OBS networks and applications in delay-based service differentiation. Photonic Network Communications, 2007, 14, 49-62.	2.7	16
88	Analysis of average burst-assembly delay and applications in proportional service differentiation. Photonic Network Communications, 2007, 14, 183-197.	2.7	9
89	A Quality of Service Assessment Technique for Large-Scale Management of Multimedia Flows. Lecture Notes in Computer Science, 2007, , 173-176.	1.3	0
90	Weibull mixture model to characterise end-to-end Internet delay at coarse time-scales. IET Communications, 2006, 153, 295.	1.0	43

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91	A Resilience-Based Comparative Study between Optical Burst Switching and Optical Circuit Switching Technologies. , 2006, , .		1
92	Jitter-based analysis and discussion of burst assembly algorithms. , 2006, , .		0
93	Learning EPON Delay Models From Data: A Machine Learning Approach. Journal of Optical Communications and Networking, 0, , .	4.8	5